

19980122.ba v01\_n886.bam.980122

>From ???@??? Thu Jan 22 12:58:07 1998  
Message-Id: <199801221614.KAA25981@sco.theporch.com>  
Date: Thu, 22 Jan 1998 10:14:29 CST  
Subject: BOATANCHORS digest 1886

BOATANCHORS Digest 1886

Topics covered in this issue include:

- 1) Unknown "tube"..  
by Sandy W5TVW <ebjr@worldnet.att.net>
- 2) Unknown tube #2  
by john <johnmb@mindspring.com>
- 3) National PW Dial Removal  
by Jim Hill <jshillw6ivw@earthlink.net>
- 4) Fw: Bendix RA10 found  
by "larry W6WUH" <rau@wco.com>
- 5) 100kc Xtals are coming I swear it !  
by "larry W6WUH" <rau@wco.com>
- 6) Nuvistor Testing  
by "larry W6WUH" <rau@wco.com>
- 7) voltage calibration  
by mike <michaels@kc2kj.k2nesoft.com>
- 8) HK-54's birthday?  
by sinned@vnet.IBM.COM
- 9) Re: voltage calibration  
by John Shriver <jas@shiva.com>
- 10) Re: National PW dial removal  
by "Owens, Clarence" <owensc@nebeng.otis.com>
- 11) Re: Unknown tube #2  
by Ken Gordon <keng@uidaho.edu>
- 12) Heath IM-22 manual needed  
by jim thompson <jim@exis.net>
- 13) A new key!  
by "Roberta J. Barmore" <rbarmore@indy.net>
- 14) Re: voltage calibration  
by jackiv@juno.com (John M Iverson)
- 15) Re: ADMIN: Manual Copying  
by Edward Zeranski <ejz@nosc.mil>
- 16) Joe Pinner you rmail is bouncing  
by "Andy Howard, WA4KCY" <sweetbay@compuserve.com>
- 17) Funny numbers on Navy Keys  
by "Neal McEwen, K5RW" <nmcewen@metronet.com>
- 18) BC-223 and BC-312 needed  
by mike kelly <vk3cz@sympac.com.au>
- 19) Access 1977 Drake Catalog

- by Jim Coe W5JI <jcoeb@brightok.net>
- 20) FS TU-9-B parts unit  
by Jim Coe W5JI <jcoeb@brightok.net>
- 21) BC-224-A and BC-307-A reunited  
by Ho4bart <Ho4bart@aol.com>
- 22) Re: ADMIN: Manual Copying  
by John Dilks <oldradio@worldnet.att.net>
- 23) WW-2 OQ3 Target Drone RC radio?  
by polepeeg@aa4rm.radio.org (BA x-actions hr)
- 24) Voltage References  
by RSOLOMON@systems.TEXTRON.COM
- 25) RE: voltage calibration  
by "L. Mark Pilant - MS:ZK03-4/Y02 DTN:264-1529" <pilant@seesaw.ENET.dec.com>
- 26) Re: Panel Lettering  
by W4UOC <W4UOC@aol.com>
- 27) RE: voltage calibration  
by "Roberta J. Barmore" <rbarmore@indy.net>
- 28) MORE NUVISTOR INFO  
by JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 29) Bobbi's got a brand new key!  
by Ed Sieb <esieb@gmsiworld.com>
- 30) Re: ADMIN: Manual Copying  
by "Arden Allen" <aallen@sirius.com>

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Date: Wed, 21 Jan 1998 17:25:36 +0000  
From: Sandy W5TVW <ebjr@worldnet.att.net>  
To: boatanchors@theporch.com, glowbugs@www.atl.org  
Subject: Unknown "tube"..  
Message-ID: <19980121172535.AAA17661@LOCALNAME>

I have some odd-ball tubes. They appear to be Xenon flash lamps?  
Have a "U" shaped tube and a small NE-2 sized tube next to it. These both in  
a clear plastic T9 bulb on an octal base. (About the size of a 6SN7GT)  
There is a label on the base that says: Xe 1F/2S. No manufacturer  
indicated. Whatzit? Anybody know.

73,  
E. V. Sandy Blaize, W5TVW  
"Boat Anchors collected, restored, repaired, traded and used!"  
417 Ridgewood Drive  
Metairie, LA., 70001

\*\*860 Hartley 'ECO' construction "on hold"\*\*\*\*  
\*\*\* Looking for a TRC-10 transceiver \*\*\*\*\*  
\*\*\* Looking for an RAL receiver \*\*\*\*\*

-----  
Date: Wed, 21 Jan 1998 12:44:13 -0500  
From: john <johnmb@mindspring.com>  
To: boatanchors@theporch.com  
Subject: Unknown tube #2  
Message-ID: <199801211744.MAA03758@camel8.mindspring.com>

Marking = CR900A...

A friend found several of these in a lot of tubes he bought at an AWA meet. They are mid sized octal looking things (about 6V6 size, or perhaps a half inch or so taller) that look just like a filament strung over some insulating material?

Any ideas?

Best  
/John

-----  
Date: Wed, 21 Jan 1998 10:20:45 -0800  
From: Jim Hill <jshillw6ivw@earthlink.net>  
To: boatanchors@theporch.com  
Subject: National PW Dial Removal  
Message-ID: <3.0.3.32.19980121102045.0071b768@earthlink.net>

Responding to the following question  
I need advice on how to remove a PW dial assembly from the capacitor gearbox. Thanks/73.  
Chas W3KC  
chas@digizen.net

I have had the same problem with National and others, such as the RME69 tuning knob (anyone have a junker RME??)

When the dial is installed at the factory, the set screw is tightened with so much force that a small amount of metal is pushed up or "upset". One person told me he made a sort of slide hammer and jerked the dial off, but I would be afraid to use this approach. I think there was an article in the AWA journal that had a solution, but have few back issues. I wrecked the gear drive on my RME69 trying to remove the tuning knob. Like W3KC, I'm interested in a fix.

-----  
Date: Wed, 21 Jan 1998 10:41:13 -0800  
From: "larry W6WUH" <rau@wco.com>  
To: "boatanchors" <boatanchors@theporch.com>  
Subject: Fw: Bendix RA10 found  
Message-ID: <199801211843.KAA15747@shell.wco.com>

-----  
> From: larry W6WUH <rau@wco.com>  
> To: Cosmo224 <Cosmo224@aol.com>  
> Subject: Re: Bendix RA10 found  
> Date: Wednesday, January 21, 1998 10:40 AM  
>  
> you should look in the yellow pages for and Avionics repair shop.. look  
> under Aircraft in the yellow pages.. or look up Trade-A-Plane web site..  
>  
> These manuals are still on the shelves.. and in smaller shops probably on  
> there way out to oblivion...  
>  
> some of us still believe in RDF in flying and sailing.. it provides a  
cheap  
> and easy line of position.. especially in the boonies...and they don't  
turn  
> off the local AM stations.. every time some parnoid military big wig gets  
> appoplexy.. like they do the GPS satellites !  
>  
> Capt. larry W6WUH

-----  
Date: Wed, 21 Jan 1998 10:44:29 -0800  
From: "larry W6WUH" <rau@wco.com>  
To: "boatanchors" <boatanchors@theporch.com>  
Subject: 100kc Xtals are comming I swear it !  
Message-ID: <199801211847.KAA17182@shell.wco.com>

My appologies to everyone who has been waiting since before xmas for your  
free xtals...life got in the way.. and I will be getting around to labeling  
the things and mailing them soon...

73  
Larry

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Date: Wed, 21 Jan 1998 11:08:23 -0800  
From: "larry W6WUH" <rau@wco.com>  
To: "boatanchors" <boatanchors@theporch.com>  
Subject: Nuvistor Testing  
Message-ID: <199801211911.LAA27175@shell.wco.com>

Hitting my nuvistors with progressively bigger hammers...trying to get them to fail like they Should.

So far no luck.

More later.

Larry

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Date: Wed, 21 Jan 1998 15:31:00 -0500 (EST)  
From: mike <michaels@kc2kj.k2nesoft.com>  
To: boatanchors@theporch.com  
Cc: michaels@kc2kj.k2nesoft.com (mike)  
Subject: voltage calibration  
Message-ID: <199801212031.PAA16992@kc2kj.k2nesoft.com>

With all the test equipment everyone has gathered on the list, what strategies do list members utilize to calibrate their voltmeters. I am not talking about buying, from a hamfest, some "hopefully" calibrated voltage reference, but making a reference that can be relied upon for very good accuracy, beyond that which can be expected from a 7805 or a zener with compensating diodes...

mike  
kc2kj

--  
Michael Sullivan --- michaels@kc2kj.k2nesoft.com  
home page : <http://kc2kj.k2nesoft.com:8080/Merchantville>  
Merchantville NJ - 5 miles from Philadelphia, Pa

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Date: Wed, 21 Jan 98 14:54:29 CST  
From: sinned@vnet.IBM.COM  
To: boatanchors@sco.theporch.com  
Subject: HK-54's birthday?  
Message-ID: <199801212102.PAA01530@sco.theporch.com>

With the CX just around the corner, I need to find the month and year that the HK-54 tube was announced, so I can properly "date" my amp that

I'll be running on 15, 20, & 40. Does anyone have any advertisements, etc? My guess is between '37 and '41. I've found the announcements for other bottles in the "What's New?" section of 'Radio' magazines, but haven't seen anything on the HK-54.

73 & CU on CX  
Dennis W5FRS  
sinned@vnet.ibm.com

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Date: Wed, 21 Jan 1998 16:20:50 -0500  
From: John Shriver <jas@shiva.com>  
To: michael@kc2kj.k2nesoft.com  
Cc: boatanchors@theporch.com  
Subject: Re: voltage calibration  
Message-ID: <199801212120.QAA00922@brill.shiva.com>

Well, for DC you can try and find a standard cell at a hamfest, and see if it can be revived.

Or, Linear Technology makes some stunning voltage reference chips. The LT1019A-5 puts out 5V at 0.05%, with a 5ppm temperature coefficient. (The non-selected LT1019-5 may be more affordable.) It can be connected like a 7805, but will be much more accurate.

It even has a heating resistor built in, if you want to maintain constant temperature to eliminate that problem.

Of course, that may be the same chip that's already in the DVM one is trying to calibrate! Really good voltage references are well within the budget of the designer of a good DVM.

I just trust the used Fluke DVM that I bought a few years ago, presuming that they use a good voltage reference.

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Date: Wed, 21 Jan 1998 18:01:00 -0500  
From: "Owens, Clarence" <owensc@nebeng.otis.com>  
To: Boatanchors Post <boatanchors@theporch.com>  
Subject: Re: National PW dial removal  
Message-ID: <0EN5PF83200240@mailman.otis.com>

I had sent the following to Chas, but since there seems to be more interest in these dials I'm sending it to everyone:

Hi Chas,

The Antique Wireless Association's pub, the Old Timer's Bulletin has had a series of articles by Bill Fizette (the current Pres.) on the PW dial and the units that used it, with a lot of good advice on how to disassemble, clean the gearbox, adjust for backlash, etc. The issues are: May '88, May '92, Aug '94, Nov 95, Aug '97.

The AWA itself has a small stock of back issues. I imagine you can get their info from their website. It's URL is in the sig block of:

John Dilks, K2TQN

Webmaster for the Antique Wireless Association  
<http://www.ggw.org/awa> Click on "Page 2"

In case his/their site doesn't have it, I'll dig up my latest OTB tonight and send you the back issue info from it.

Bill Fizette is a real national HRO and coil tray receiver expert, who loves to take old basket cases completely apart and rebuild them. I think he says in one of those articles that it took him about 20 hours of work to completely strip, clean, paint and reassemble an older model HRO. Man! That'd take me half a lifetime! I guess I'm on the wrong side of the learning curve. Or maybe he has a funny clock... But he is a really nice guy; I've met him at several of the AWA meets, and we've corresponded a couple of times on National subjects.

The list of available backissue OTBs in the latest one seems to include all of the issues I mentioned above. They are \$3.00 each, postpaid, from Ed Gable, 187 Lighthouse Rd, Hilton, NY 14468.

Hope this helps

73,

Clare Owens  
[owensc@nebeng.otis.com](mailto:owensc@nebeng.otis.com)

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Date: Wed, 21 Jan 1998 17:48:59 -0800 (PST)  
From: Ken Gordon <[keng@uidaho.edu](mailto:keng@uidaho.edu)>  
To: john <[johnmb@mindspring.com](mailto:johnmb@mindspring.com)>  
Cc: Old Tube Radios <[boatanchors@theporch.com](mailto:boatanchors@theporch.com)>  
Subject: Re: Unknown tube #2

Message-ID: <Pine.BSF.3.95.980121174837.4855A-100000@piobaire.mines.uidaho.edu>

> Marking = CR900A...  
>  
> A friend found several of these in a lot of tubes he bought  
> at an AWA meet. They are mid sized octal looking things  
> (about 6V6 size, or perhaps a half inch or so taller) that look  
> just like a filament strung over some insulating material?

Probably a "ballast" tube.

Ken

-----  
Date: Wed, 21 Jan 1998 20:51:47 -0500  
From: jim thompson <jim@exis.net>  
To: boatanchors@theporch.com  
Subject: Heath IM-22 manual needed  
Message-ID: <1.5.4.16.19980122015147.585fdf64@mailhub.exis.net>

Attention Heath fans. I have a Heath IM-22 Audio Analyzer and I'd like to turn it into a useful instrument. It appears to be working, but I need the setup and calibration procedures, etc. In other words, I need the manual. Can anyone point me in the right direction? If you have one, I'd be more than happy to pay for a copy and for your effort.

Thanks,  
Jim, W4THU  
jim@radioworks.com  
757-484-9192

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Date: Wed, 21 Jan 1998 21:58:25 -0500 (EST)  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
To: BA <boatanchors@sco.ThePorch.com>, glowbugs <glowbugs@www.atl.org>  
Subject: A new key!  
Message-ID: <Pine.SUN.3.96.980121212510.325B-100000@indy2>

Hi!

It was waiting in the mailbox when Dean came home, at long last! An "entry-level" straight key from Waters & Stanton in the UK. (It's been across the Atlantic three times, thanks to my midwestern-US accent).



Very nice little bar key of the general British & Continental pattern, though the maker's mark is "Llaves Telegraficas Artesanas." (Does this rang any bells with anybody?) It's got vee bearings, rather than the sleeve type of older bar keys or the bearings found on the Kent &c. Wooden base and knob, hardware's all unplated brass.

Fit and finish overall is good, though it's not up to the standards of Mitch at Vibroplex. But a fine value for #30 (\$48)! (Now if I can just make the time to \*use\* it!)

Waters & Stanton sent along a catalogue and they've got several other keys of this make, including a tiny version, one with ball bearings and a really attractive paddle. They also carry a brand I have not seen in the US for several years, the Japanese "Hi-mound." The JAs have something to be proud of in these--they're solid, practical keys that look good and are unlike any others. Prices aren't terrible--the low end is #30 and the fancy marble-base job goes for #70 (\$112). (Doesn't anybody in the US carry these? Dick Smith Electronics did, before their US venture went belly-up, and the local DSE store sold all they could get).

...And why do I mention 'em here? 'Cos they look FB in a hollow-state station, and will hold up to that use. Oh, I wouldn't put my little wood-base one to keyin' a kV, but it'll do fine for smaller rigs. The Hi-mounds have Bakelite (or at least hard black plastic) bases and oughta take anything our old gear would hand 'em! It's also darned nice to find \*one\* thing from the old days still going strong; worldwide, there's a \*heap\* of outfits making keys even now.

(General note, the W&S catalogue is one of the better laid-out ones; photos are big enough to see the gear and all in colo(u)r. Prices on US-made gear are higher (no surprise) but it's a handy reference!)

73,  
--Bobbi

-----  
Date: Wed, 21 Jan 1998 21:06:10 CST  
From: jackiv@juno.com (John M Iverson)  
To: jas@shiva.com  
Cc: boatanchors@theporch.com  
Subject: Re: voltage calibration  
Message-ID: <19980121.210710.3286.2.jackiv@juno.com>

HI ALL our good hand held fluke vtvm will do as good as the standards of 20 years ago as to the ac i bow to our experts, many kinds of ac jak  
Jack Iverson K0EWU jackiv@juno.com

On Wed, 21 Jan 1998 16:20:50 -0500 John Shriver <jas@shiva.com> writes:  
>Well, for DC you can try and find a standard cell at a hamfest, and  
>see if it can be revived.

>

>Or, Linear Technology makes some stunning voltage reference chips.  
>The LT1019A-5 puts out 5V at 0.05%, with a 5ppm temperature  
>coefficient. (The non-selected LT1019-5 may be more affordable.) It  
>can be connected like a 7805, but will be much more accurate.

>

>It even has a heating resistor built in, if you want to maintain  
>constant temperature to eliminate that problem.

>

>Of course, that may be the same chip that's already in the DVM one is  
>trying to calibrate! Really good voltage references are well within  
>the budget of the designer of a good DVM.

>

>I just trust the used Fluke DVM that I bought a few years ago,  
>presuming that they use a good voltage reference.

>

>

>

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Date: Wed, 21 Jan 1998 20:01:43 -0800  
From: Edward Zeranski <ejz@nosc.mil>  
To: listown@jackatak.theporch.com  
Cc: boatanchors@theporch.com  
Subject: Re: ADMIN: Manual Copying  
Message-ID: <3.0.1.32.19980121200143.0072ebb8@marlin.nosc.mil>

Sorry Boss, but the request and offer of tech info has always been as an important part of BA for me as the occasional post by senior all knowing members. My procedure has been to contact folks off line then pass on what I have for copy and post fees, in my opinion a very BA thing to do. All the manual reproducers on the list have sold me manuals and, yes, I check their catalogs then buy, if possible, before I post to BA. My biggest prob is getting gone for my work then having to go back to see what I promised. To close...Some are new to tube radio and don't have the info sources down pat, some folks may know but want to cheap out, but don't get down on the request for info. As the old chief said last time "Pipe the soap box secured."

Ed Zeranski This is a private opinion or statement.  
home email: ezeran@cris.com

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Date: Wed, 21 Jan 1998 23:38:14 -0500

From: "Andy Howard, WA4KCY" <sweetbay@compuserve.com>  
To: "LIST, POST BOATANCHORS" <BOATANCHORS@theporch.com>  
Subject: Joe Pinner you rmail is bouncing  
Message-ID: <199801212338\_MC2-302F-1C68@compuserve.com>

Sorry to have to include this on the list but getting in touch with Joe is  
s  
important.

Joe, your mail is bouncing. Get in touch with me about the questions you  
asked.

Regards,

~~~~~  
Andrew E. (Andy) Howard, Sr., WA4KCY  
105 Sweet Bay Lane  
Carrollton, Georgia 30116-8519  
Telephone 770-832-0202  
AMI #9 - Southeastern Division Director  
Web Page URL -  
<http://ourworld.compuserve.com/homepages/sweetbay>  
<><

~~~~~ =  
Keeper of the Hallicrafters SX-88 Owners List

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Date: Wed, 21 Jan 1998 22:18:36 +0000  
From: "Neal McEwen, K5RW" <nmcewen@metronet.com>  
To: boatanchors@sco.theporch.com  
Subject: Funny numbers on Navy Keys  
Message-ID: <34C6743C.641C@metronet.com>

Anchorites,

I've gotten several questions from you guys lately about the makers of  
Navy keys. You know, ... the ones that have a number that start with CJB  
or CAQ or CMI or something like that. You probably have a key marked  
CJB26003A or similar. Want to know what all those letters and numbers  
mean? Want to know how the scheme evolved?

I've put together a short article on the Navy naming conventions for  
keys and two tables of the codes vs. the maker. From this you should  
be able to identify most any navy key made from 1915 to around the  
Korean War. You can also get a rough idea of the vintage.

Take a look at [http://www.metronet.com/~nmcewen/Navy\\_numbers.html](http://www.metronet.com/~nmcewen/Navy_numbers.html)  
If you don't find your key there, let me know. I've got some other

resources I can check.

thanks to Ray Mote for providing part of the input.

--

73 de K5RW, Neal McEwen, at "The Telegraph Office", nmcewen@metronet.com

A WWW Page for Telegraph Key Collectors and Historians

[http://fohnix.metronet.com/~nmcewen/tel\\_off.html](http://fohnix.metronet.com/~nmcewen/tel_off.html)

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Date: Thu, 22 Jan 98 15:41:20 PST

From: mike kelly <vk3cz@sympac.com.au>

To: boatanchors@theporch.com

Subject: BC-223 and BC-312 needed

Message-ID: <MAPI.Id.0016.006b33637a2020203030303530303035@MAPI.to.RFC822>

hello from Mike in Australia.

I have been a avid user /col=

lector of

older comms gear , and presently use a Yaesu FT 200B and FR100B  
outfit on the air.

At present I am looking for a BC-223 transmitter and its companion rx  
the BC-312 to install in my 1/2 ton DODGE command car. I realise  
that the cost of shipping is high. But if anyone has any of the  
accessories

i.e. Mounting trays . manuals , microphones etc, this would be a  
start.

A friend here is restoring a heathkit SB101 rig, he needs the little  
1/4 inch coil formers and slugs , they look like cardboard material ??

does anyone know of a source of these ???

I have a small military radio collection which includes mostly locally  
made gear. The local radio industry produced some sets for the  
U.S. signal corps during WW2 . I have a AT-21 tx made by AWA  
in Sydney for the U.S forces, they also made some rx based on the

HRO model. The HRO lookalike made by AWA has a Green/  
olive army front panel . The valves are locally made types like  
6U7G etc.

Anyway better go now 73's de mike VK3CZ@ sympac.com.au

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Date: Thu, 22 Jan 1998 00:07:54 -0600 (CST)  
From: Jim Coe W5JI <jco@brightok.net>  
To: boatanchors@sco.theporch.com  
Cc: baswaplist@foothill.net  
Subject: Access 1977 Drake Catalog  
Message-ID: <199801220607.AAA28394@cowboy.brightok.net>

I have scanned and posted several of the BA related pages from the 1977 Drake catalog that I am currently giving away under the famous "Rules of Ware" on my web page. The pages are stored as JPEG files and average about 230K per page since I wanted good detail in the scans. The URL and the file names are as follows:

Point your browser at

<http://www.brightok.net/~jco/pictures/xxxx.jpg>

where the xxxx is actually the following.....

|         |   |
|---------|---|
| drake3  | for the Drake wattmeter and TVI filters           |
| drake6  | for page 1 of the SPR-4 receiver                  |
| drake7  | for page 2 of the SPR-4                           |
| drake10 | for page 1 of the R-4C receiver                   |
| drake11 | for page 2 of the R-4C                            |
| drake12 | for page 1 of the T-4XC transmitter               |
| drake13 | for page 2 of the T-4XC                           |
| drake15 | for the L-4B linear amp                           |
| drake16 | for page 1 of the TR-4C transceiver and RV-4C vfo |
| drake17 | for page 2 of the TR-4C                           |
| drake19 | for a listing of Drake crystal freqs              |

Pages not posted at this time are for the SSR-1 and DSR-2 receivers, the FS-4 synthesizer, the antenna tuners, the TR-33C VHF xcvr and amp, the Drake remote antenna switch, the two price list pages and the front and inside front covers which are general info. I can post these later if there is need or I can arrange to send them to individuals who request them.

Let me know if you have any problem accessing the files.

73's.....Jim

-----  
Jim Coe W5JI                      Hollowstater should never tell their  
Oak Crest(Antenna)Farm           paramours that the glow in their  
Davis, OK, USA                   eyes reminds them of a favorite radio!!  
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-----  
Date: Thu, 22 Jan 1998 00:11:57 -0600 (CST)  
From: Jim Coe W5JI <jcoe@brightok.net>  
To: boatanchors@sco.theporch.com  
Subject: FS TU-9-B parts unit  
Message-ID: <199801220611.AAA28719@cowboy.brightok.net>

I posted this on the baswaplist and no one wanted it, so before it gets parted out, I thought I'd post it here also.

I have in front of me a 7700-10000 KC TU-9-B with original calibration chart but missing a few items as follows:

The tuning knob for M.O. Tuning and the short front shaft are missing and the ceramic coupler is broken. The tuning cap is there as is the coil. These are the horizontally mounted items. The vertically mounted "calibration" cap and knob are there as are the two mica coupling caps. Whatever sits on top of the vertically mounted cap is missing as is the knob? that fits partially through the front panel.

The locking clips (4) are there and in good condx. The name plate is in good shape and is S/N 102878 by G.E.

The P.A. Tuning cap is gone as well as the knob. The front shaft, half the ceramic coupling and the locking mechanism and knob are there. The coil is there as well as the switch and knob assembly.

All the baffles and braces are there as well as the mica? connection bar across the top behind the panel. The panel is in good condx with all markings intact. There is a small gouge or scrape shaped like a 1/2-inch half moon at the very top of the panel above the right hand edge of the calibration chart holder. No top or bottom covers.

I have no use for the unit and I figure someone on the list needs the parts. How about \$ 15.00 shipped CONUS? If I'm off base, make me an offer.....

73's.....Jim

-----  
Jim Coe W5JI                      Hollowstaters should never tell their  
Oak Crest(Antenna)Farm           paramours that the glow in their  
Davis, OK, USA                    eyes reminds them of a favorite radio!!  
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-----  
Date: Thu, 22 Jan 1998 02:21:55 EST  
From: Ho4bart <Ho4bart@aol.com>  
To: boatanchors@sco.theporch.com  
Subject: BC-224-A and BC-307-A reunited  
Message-ID: <80d5a60a.34c6f395@aol.com>

monday nite i was driving in the beautiful verdant northwest  
and after a hour or so of fun stop and go freeway traffic jams,  
accidents in the dark and rain, i arrived at Richard's house with  
the last 16mm film installment on the long put off trade.  
as we were looking at the BC-224-A i opened the book  
\_Radio In Airmanship\_ ( 1942 ) to page 114 where there was a  
photo of the setup. "Hey", Richard sed, "this isn't the same, look".  
Sure enough. "Is there a third variant ?!?! " i wondered.  
"Wait", he sed. "The book reversed the photo!!"

BTW, for ugly radios, the BC-224-A is way up there. I really have  
to hand it to the ME who redesigned the layout used in the  
later BC-224s and BC-348s, they look SO much better.  
The book calls this setup a "short range liason set", sounds kinda  
like a contradiction in terms, no? On the opposite page is the  
corresponding ground set with the BC-191 xmtr & BC-189 rec.  
( "Army's first superhet receiver" ).  
BTW, i will be wanting a BD-86 dynamotor to go with this setup.  
And the BC-308 control box, is that just a command / liaison  
switch?  
tnx, hue miller

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Date: Thu, 22 Jan 1998 06:00:13 -0500  
From: John Dilks <oldradio@worldnet.att.net>  
To: ejz@nosc.mil

Cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: ADMIN: Manual Copying  
Message-ID: <34C726BD.33E3@worldnet.att.net>

Edward Zeranski wrote:

>

> Sorry Boss, but the request and offer of tech info has always been as an  
> important part of BA for me as the occasional post by senior all knowing  
> members. -----snip-----

I feel the same way. I enjoy making copies of some obscure piece of  
radio history and passing it on. I usually don't ask for any \$\$ if only  
a page or two. And the same courtsey has been returned to me by other  
BA members. It part of the glue which keeps us together and make us  
unique.

73' John Dilks, K2TQN

Webmaster for the Antique Wireless Association  
<http://www.ggw.org/awa> Click on "Page 2"

--and--

for the New Jersey Antique Radio Club  
<http://www.eht.com/oldradio>

-----please-visit-----

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Date: Thu, 22 Jan 1998 07:05:38 -0500  
From: polepeeg@aa4rm.radio.org (BA x-actions hr)  
To: boatanchors@theporch.com  
Subject: WW-2 OQ3 Target Drone RC radio?  
Message-ID: <199801221205.HAA05333@aa4rm>

A friend has the 2 cyl McCullough engine fm one and is seeking any info.

The whole drone was so named and the engine a 0-15-3. The lost to history  
book is AN28-10C-2 and the dwg. # on the engine plate is 44G10926.

Sorta looks like 1944... and the plate further says AAF not air corps.

Anyone know the drone's electronics package???

The drone had been cut out of a treetop in Charleston, SC in 1960  
& only the engine survives. There's more but that'll suffice here.

Pal knows Pima air museum & Smithsonian both have complete examples but



no one's got a book.

Thanks all,

Marty

-----  
Date: Thu, 22 Jan 1998 08:00:15 -0500  
From: RSOLOMON@systems.TEXTRON.COM  
To: " - (052)boatanchors(a)sco.theporch.com"  
<boatanchors@sco.theporch.com>  
Subject: Voltage References  
Message-ID: <00341000022387890000002L092\*@MHS>

An old tech at MIT showed me a cheap, but effective voltage reference.  
Put a 10k resistor across a D-Cell (old style cheap alkaline). It  
will be very stable and reproduceable. FWIW..  
73, Dick, W1KSZ  
rsolomon@systems.textron.com

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Date: Thu, 22 Jan 98 09:10:41 EST  
From: "L. Mark Pilant - MS:ZK03-4/Y02 DTN:264-1529" <pilant@seesaw.ENABLE.dec.com>  
To: boatanchors@theporch.com  
Cc: pilant@seesaw.ENABLE.dec.com  
Subject: RE: voltage calibration  
Message-ID: <9801221410.AA19257@us2rmc.zko.dec.com>

In addition to Linear Technology, Analog Devices makes the AD581 (I'm pretty sure that is the correct number). This three legged device is a 10V device which can be externally adjusted to justabout as much precision as you would want.

Also, a couple of years back, if anyone really wants to know I'll look up the dates, Electronics Now or Popular Electronics ran a series of three articles on building a 10VDC standard, a null prodge, and a Kelvin-Varley voltage divider for a very reasonable cost.

My biggest problem has always been AC calibration. Just recently I was able to pick up a Ballantine 421 AC/DC precision calibrator. It wasn't working when I got it, but through the VERY! good folks at Ballantine I was able to get a schematice close enough to get it working. (This is circa mid 1960s, and is all tube based :-). The way it does AC is to use an appropriate frequency oscillator followed by a precision amplifier to generate a 40V sine

wave. This is then fed through a series of ratio transformers to divide down is fairly large chunks, and then a simple resistive voltage divider for the smaller pieces.

These do show up occasionally. I just saw one (a Ballantine 420) for sale in the last month or two for \$75 with a manual.

I'll second the accuracy of the Fluke instruments. Around last Thanksgiving I took a number of my meters and a frequency to a cal lab. All except my Fluke 77 needed some adjustment. (Although it turns out not much, as I had used the 77 as my reference.) The tech said he almost never had to adjust any Fluke handheld meter.

73

- Mark N1VQW

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Date: Thu, 22 Jan 1998 09:47:57 EST  
From: W4UOC <W4UOC@aol.com>  
To: william@ans.net, boatanchors@theporch.com  
Subject: Re: Panel Lettering  
Message-ID: <da489cb8.34c75c20@aol.com>

I have made new dial calibration scales for my Morrow Twins using an HP plotter and clear films used for over head projection.

I first scanned the original glass dial scales in a bit mapped file. Then with microsoft paint brush reconstructed the missing portions of the characters and then printed the refreshed scales to a laser printer. Which did an ok job. However I converted the scanned and bit mapped image to a format that I could print on my HP plotter and the images were much better. I then fastened the scales which were printed on clear film behind clear glass and reinstalled them in the transmitter and receiver.

They obviously are not as good as the original but if you had not seen the original you would not know they were "remanufactured"

Tom Koch - W4UOC

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Date: Thu, 22 Jan 1998 11:01:30 -0500 (EST)  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
To: "L. Mark Pilant - MS:ZK03-4/Y02 DTN:264-1529" <pilant@seesaw.ENET.dec.com>  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: voltage calibration

Message-ID: <Pine.SUN.3.96.980122104330.7791B-100000@indy2>

Hi!

I'm going to keep this very short, as it gets off-topic; but it strikes me that the manner in which the better DVMs measure voltage might not be clear to folks.

Most of 'em use so-called "charge counting" circuits, which essentially turn voltage into \*time.\* Digital systems can measure time with very good precision, so getting good accuracy boils down to A) how good the charge-counter is (bad ones can be very bad) and B) how good the time reference is.

A good DVM is a \*lot\* better than a Simpson 260 (or an old AVOmeter, for those who drive on the other side) for accuracy. On the other hand, if I want something that's well-behaved in a strong RF field, or if it's a tweak-for-dip/peak application, I'll take the Simpson. If the VOM loads the measurement point too much, a VTVM is the choice (at the cost of reduced RFI immunity).

For nearly all amateur applications, absolute values are not important; order-of-magnitude and good indication of small changes are sufficient. A "good" DVM, kept where it will not fly to the floor nor be exposed to adverse environmental conditions, is a fine comparison reference for most ham shacks. If you want a little better precision, zinc-carbon cells will do as cal sources (search the archives under "van Cleef;" Hank wrote a pretty definitive essay on recalibrating an h/p VTVM starting with ordinary dry cells awhile back).

If you want NBS-traceable accuracy, go to a cal shop; they do it for a living. \*Maintaining\* calibration means treating the meter as you would any precision measurement tool--it stays in the box when not in use, you don't bang it around, and you don't loan it out. Even at that, once a year recalibration will be required, maybe even more often. It ain't worth it unless you really \*need\* it for the stuff you're working on...which would not be most tube ham gear.

73,  
--Bobbi

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Date: Thu, 22 Jan 1998 10:56:49 -0500 (EST)  
From: JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)  
To: boatanchors@theporch.com  
Subject: MORE NUVISTOR INFO  
Message-ID: <9801221056.aa05209@pcusa01.ecunet.org>

To: boatanchors@theporch.com

When I recently ckd my stock of used Nuvistors (on a B-K 700 tt), most were very weak. So maybe the vacuum seal problem is real. Or the circuits they were in were of poor design & toasted 'em, e.g. TV set tuners.

-John Sehring (written on Wed, Jan 21, 1998 at Custer, SD) UCC WB2EQG

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Date: Thu, 22 Jan 1998 11:16:12 -0500  
From: Ed Sieb <esieb@gmsiworld.com>  
To: Old Tube Radios <boatanchors@theporch.com>,  
    "Roberta J. Barmore"  
Subject: Bobbi's got a brand new key!  
Message-ID: <01BD2727.26CE3D20@dstephen.gmsiworld.com>

Hi Bobbi,=20

How about posting the address, phone no., coordinates, Long/Lat., etc. =  
for us? W&S sounds like a FB source of keys and I'd love to find out =  
more.  
=0DEd, VA3ES=0D=0D-----

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Date: Thu, 22 Jan 1998 08:12:54 -0800  
From: "Arden Allen" <aallen@sirius.com>  
To: "Old Tube Radios" <boatanchors@theporch.com>  
Subject: Re: ADMIN: Manual Copying  
Message-ID: <199801221611.IAA02867@mail2.sirius.com>

I don't think Jack really wants to squelch requests for manuals entirely, especially for hard to find stuff. The problem comes when the posts stray into subjects not related to topic. I don't really care to read about who scored a great deal or who is cheating who. Human behavior is not what BA is about. Think about it.

Give your loved ones Gummy Bears.  
Arden Allen KB6NAX Vallejo, CA aallen@sirius.com

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End of BOATANCHORS Digest 1886  
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